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(54) CITRONELLAL DERIVATIVE AND USE THEREOF

(57) Abstract:

NEW MATERIAL: A citronellal derivative consisting of an acetal of citronellal and a compound expressed by formula I [B is residue of a compound having 3-22 OH groups; AO is 2-18C oxyalkylene or halogen-substituted oxyalkylene; R is 1-24C hydrocarbon group or acyl; a is 2-21 and at least two of C bonded to OH are mutually in the 1,2- or 1,3-positions; b and c are 0-20, provided that (a+b+c) is 3-22; l and m ≥ 0 ; and (bl+cm) is 1-1000].

EXAMPLE: A compound expressed by formula II.

USE: An insecticide and noxious animal repellent, soluble in water and organic solvents, hydrolyzable under acidic conditions and releasing the citronellal.

PREPARATION: For example, a compound having 3-22 OH groups is reacted with citronellal in or without

a solvent in the presence of a catalyst, such as p-toluenesulfonic acid, to form an acetal, which is then subjected to addition reaction with an alkylene oxide to afford the afore-mentioned novel substance.

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